

PATENT COOPERATION TREATY
PCT
INTERNATIONAL SEARCH REPORT
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PAT 2295W-90	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below	
International application No. PCT/CA2005/000701	International filing date (day/month/year) 06 May 2005 (06-05-2005)	(Earliest) Priority date (day/month/year) 06 May 2004 (06-05-2004)
Applicant SIDENSE CORP. ET AL		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of:

☒ the international application in the language in which it was filed

☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I

2. ☐ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title, 1

☐ the text is approved as submitted by the applicant

☐ the text has been established by this Authority to read as follows :

5. With regard to the abstract, 1

☒ the text is approved as submitted by the applicant

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 4

☒ as suggested by the applicant

☐ as selected by this Authority, because the applicant failed to suggest a figure

☐ as selected by this Authority, because this figure better characterizes the invention

b. ☐ none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2005/000701

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7): H01L 29/66, H01L 29/78, H01L 27/115, H01L 21/336, G11C 17/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H01L 29/66, H01L 29/78, H01L 27/115, H01L 21/336, G11C 17/16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)
Canadian Patent Database, WEST, Delphion (Derwent), IEEE
Keywords - anti-fuse/antifuse/anti fuse, gate oxide, thick*, split channel capacitor, gate capacitor, half transistor

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
✓X, Y	US 2003/0109090 A1 (Bertin et al) 12 June 2003 (12-06-2003)	1, 12, 20, 23-24, 26-27, 30-32
✓X, Y	US 5,646,438 (Frerichs) 8 July 1997 (08-07-1997)	1, 12, 23-24, 26-27, 30-32
✓X, Y	US 6,713,839 B2 (Madurawe) 30 March 2004 (30-03-2004)	18-20

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search

09 June 2005 (09-06-2005)

Date of mailing of the international search report

10 August 2005 (10-08-2005)

Name and mailing address of the ISA/CA
Canadian Intellectual Property Office
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2005/000701

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US2003109090	12-06-2003	JP2002319674 A	31-10-2002
		TW544783 B	01-08-2003
		US6531410 B2	11-03-2003
		US2003109090 A1	12-06-2003
US6713839	30-03-2004	US6713839 B2	30-03-2004
US5646438	08-07-1997	DE4440539 A1	05-06-1996
		DE59509657D D1	08-11-2001
		EP0712137 A2	15-05-1996
		JP8213483 A	20-08-1996
		US5646438 A	08-07-1997